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Compression  
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Wavelet

Compression Meets

Fractals - Hanne

Kekkonen Image

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Fractal And  
~~Wavelets~~ Image  
(~~Examples in~~  
~~Matlab~~) Image  
Compression with  
Wavelets  
(Examples in  
Python) 54. Digital  
Image Processing:  
Fractal Image  
Compression  
~~Wavelets and~~  
~~Multiresolution~~  
~~Analysis~~ Image  
Compression using

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Fractal And  
Fractal Image  
Transformation  
MATLAB code

---

Lecture - 19 Fractal  
Image Compression

---

SVD: Image  
Compression  
[Matlab]

---

The Theory of  
Wavelet Transform  
and its  
implementation  
using Matlab

---

Introduction to

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Fractal And  
Wavelet Theory  
and it's Applications  
Understanding  
Wavelets, Part 1:  
What Are Wavelets  
How Image  
Compression Works  
Deepest Mandelbrot  
Set Zoom Animation  
ever - a New  
Record!  $10^{275}$   
( $2.1E275$  or  $2^{915}$ )  
Fourier Transform,  
Fourier Series, and



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Fractal And

Wavelet frequency spectrum

~~How To Master a~~

~~World-Class Prog~~

~~Album (Plini~~

~~Impulse Voices)~~

~~What Is A Fractal~~

~~(and what are they~~

~~good for)?~~

---

The Wavelet

Transform for

BeginnersBut what

is the Fourier

Transform? A

visual introduction.

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Fractal And  
Sequences 10:  
Fractals and Chaos  
Wavelet Transform  
Analysis of 1-D  
signals using  
Python  
Understanding  
Wavelets, Part 2:  
Types of Wavelet  
Transforms Image  
File Formats -  
JPEG, GIF, PNG  
Image Compression  
using Wavelet

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Wavelet by King

Kong Ingrid

Daubechies:

Wavelet bases:

roots, surprises and

applications Image

Compression using

Discrete Wavelet

Transform (DWT) |

MATLAB code

PhotoTechEDU Day

10: Image

Compression Part 2

Wavelet Transform

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Fractal And

Analysis of Images  
using Python

4.3 The Wavelet  
Transform | Image  
Analysis Class

2013 Wavelet  
Transform Analysis  
of Images using

MATLAB and  
SIMULINK Image  
Compression

through Wavelet  
Transform (Matlab)

Fractal And

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Wavelet Image  
Compression  
The IMG System  
Techniques  
compresses images  
using fractal  
techniques, displays  
the decoded  
images, and  
computes the error  
between the  
original and  
decoded images  
through image  
subtraction. The

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Fractal And  
WAV System  
performs similar  
functions on images  
using wavelet  
techniques, and, in  
addition, displays  
the wavelet  
transform of an  
image.

~~Fractal and Wavelet  
Image Compression  
Techniques | (1999~~



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Fractal And

## DESCRIPTION

Interest in image compression for internet and other multimedia applications has spurred research into compression techniques that will increase storage capabilities and transmission speed. This tutorial provides a practical

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Fractal And

Wavelet Image

Compression

Techniques

Two

Exciting Potential.

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7/43

Image Compression

Techniques

Image Compression

Haar Wavelet ... a

Wavelet-Based

Theory for Fractal

Image Compression.



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Wavelet Image  
Compression  
Conference,  
DCC '95. Google  
Scholar. 6. Shapiro,  
J. (1996):  
Techniques for Fast  
Implementation of  
the Embedded  
Zerotree Wavelet  
Algorithm.

~~Wavelet and Fractal  
Transforms for~~

# Access Free Fractal And Wavelet Image Compression

The proposed  
multiresolution  
fractal coders are  
image compression  
schemes that  
combine wavelet  
and fractal  
transforms. They  
improve the  
performance of  
conventional fractal  
compression

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algorithms. They  
reduce the  
characteristic  
distortions of  
fractal algorithms:  
blocking artifacts  
and image blurring,  
by a better coding  
of high frequencies.

1 Introduction

~~Wavelet and fractal  
transforms for  
image compression.~~

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compression for  
internet and other  
multimedia

applications has

spurred research  
into compression  
techniques that will

increase storage

capabilities and

transmission speed.

This tutorial

provides a practical  
guide to fractal and

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approaches--two  
techniques with  
exciting potential. It  
is intended for  
scientists,  
engineers,  
researchers, and  
students.

~~Fractal and Wavelet  
Image Compression  
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Stephen ...

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Techniques  
Now, using novel  
fractal- and wavelet-  
based methods,  
developers are  
abandoning the  
JPEG standard for  
higher 20:1 to 50:1  
compression ratios.

Fractal and wavelet  
algorithms offer  
significant side  
benefits beyond  
high compression  
ratios. One feature,

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Wavelet Image  
Compression  
Techniques  
Progressive image  
transformation, cuts  
decompression  
times for lower-  
resolution image  
rendering.

Fractals and  
wavelets offer new  
ways to compress  
images ...

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Image Compression  
with a Hybrid  
Wavelet-Fractal  
Coder Jin Li and  
C.-C. Jay Kuo

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Fractal And

Abstract—A hybrid wavelet-fractal coder (WFC) for image compression is proposed in this research. The WFC uses the fractal contractive mapping to predict the wavelet coefficients of the higher resolution from

# Access Free Fractal And Image Compression with a Hybrid Wavelet-Fractal Coder

At common compression ratios, up to about 50:1, Fractal compression provides similar results to DCT-based algorithms such as JPEG. At high compression ratios fractal

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T149

compression may offer superior quality. For satellite imagery, ratios of over 170:1 have been achieved with acceptable results. Fractal video

compression ratios of 25:1 – 244:1 have been achieved in reasonable compression times (2.4 to 66

# Access Free Fractal And Wavelet Image Compression Techniques —Wikipedia

Given these limitations of wavelet-based fractal coding algorithms, we propose a new algorithm of wavelet fractal image compression to take effective

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advantage of the  
fine properties of  
wavelet coefficients  
corresponding to  
wavelet transform.

4 Adaptive Wavelet  
Fractal Coding with  
Four-Fork Tree

The algorithm we  
propose is based on  
the proposition that,  
when wavelet  
transform is applied  
to images, there

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Compression  
Techniques  
will be a number of  
zero coefficients  
and small  
coefficients.

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~~A Novel Fractal  
Wavelet Image  
Compression  
Approach ...~~

Fractal image  
compression and  
wavelet transform  
methods can be  
combined into a



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Fractal And

single compression scheme by using an iterated function system to generate the wavelet coefficients.

~~Merging Fractal~~

~~Image Compression~~

~~and Wavelet~~

~~Transform ...~~

By investigating the limitation of existing wavelet

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Fractal And  
Wavelet Image  
tree based image  
compression  
methods, we  
propose a novel  
wavelet fractal  
image compression  
method in this  
paper. Briefly, the  
initial errors are ...

~~A Novel Fractal  
Wavelet Image  
Compression  
Approach ...~~

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compression for  
Internet and other  
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applications has

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into compression  
techniques that will

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provides a practical  
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exciting potential.

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Fractal And

~~Fractal and Wavelet~~

~~Image Compression~~

~~Techniques:~~

~~Welstead...~~

Abstract Generally

the fractal image

compression is a

technique based on

the presentation of

an image by a

contractive

transform, on the

space of image, for

which the fixed

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Fractal And

point is close to the original image. The fractal image compression is rapidly growing principle covers a wide variety of coding scheme in various domains.

~~Performance of  
Fractal Image  
Compression for  
Medical ...~~

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Fractal And

Fractal encoding

and wavelet

transform methods

take two different

approaches to

discovering

structure in image

data. Barnsley and

Sloan (1988,1990)

first recognized the

potential of applying

the theory of

iterated function

systems to the

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Wavelet Image  
Compression  
Techniques  
problem of image  
compression. They  
patented their idea  
in 1990 and 1991.

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Fractal image  
Engineering Vol

T-10  
compression and  
wavelet transform

methods can be  
combined into a  
single compression  
scheme by using an  
iterated function



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Fractal And  
system to generate  
the wavelet  
coefficients.

~~A hybrid image  
compression  
algorithm based on  
fractal ...~~

Yi Zhang and  
Xingyuan Wang  
proposed a fractal  
image compression  
coding scheme  
based on wavelet

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Wavelet Image  
transform with  
diamond search. Hui  
Liu and Siliang Ma  
proposed a new  
image coding  
method based on  
discrete directional  
wavelet transform  
(S-WT) and quad  
tree decomposition.

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Fractal And

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